



Documentation for package 'mentaldisorders' version 0.1.0

- [DESCRIPTION file](#).

Help Pages

bipolarcompute	compute scores for bipolar disorders
bipolarplot	plot of results for bipolar disorders
bipolarquery	Query Bipolar Disorders
hyperbipolar	Hypergeometric test of Bipolar Disorders
hyperschizo	Hypergeometric test of Schizophrenia
schizocompute	compute scores for schizophrenia
schizoplot	plot of results for schizophrenia
schizoquery	Query Schizophrenia

```
Package: mentaldisorders
Type: Package
Title: quantification of gene implication in mental disorders
Version: 0.1.0
Author: Christophe Desterke, Genevieve Lafaye and Amine Benyamina
Maintainer: The package maintainer <christophe.desterke@gmail.com>
Description: This package quantified the gene implication in mental disorders
             such as bipolar disorders and schizophrenia
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```

bipolarcompute {mentaldisorders}

compute scores for bipolar disorders

Description

compute bipolar scores with bipolar query

Usage

```
bipolarscore<-bipolarcompute(bipolar)
```

Arguments

bipolar
query return

Value

dataframe of bipolarscore

bipolarplot (mentaldisorders)

plot of results for bipolar disorders

Description

perform plot representation of results for bipolar disorders

Usage

bipolarplot(bipolarscore)

Arguments

bipolarscore
return

bipolarquery {mentaldisorders}

Query Bipolar Disorders

Description

compute literature query for a gene list in the field of bipolar disorders

Usage

```
bipolar<-bipolarquery(set$gene)
```

Arguments

`set$gene`
list of genes

Value

dataframe of bipolarquery

hyperbipolar (mentaldisorders)

Hypergeometric test of Bipolar Disorders

Description

compute hypergeometric test for a gene list in the field of bipolar disorders

Usage

```
hbp<-hyperbipolar(bipolar)
```

Arguments

bipolar
query return

Value

dataframe of tests for bipolar disorders

[Package *mentaldisorders* version 0.1.0 [Index](#)]

hyperschizo {mentaldisorders}

Hypergeometric test of Schizophrenia

Description

compute hypergeometric test for a gene list in the field of schizophrenia

Usage

```
hs<-hyperschizo(schizo)
```

Arguments

schizo
query return

Value

dataframe of tests for schizophrenia

`schizocompute (mentaldisorders)`

`compute scores for schizophrenia`

Description

compute schizophrenia scores with shizophrenia query

Usage

```
schizoscore<-schizocompute(schizo)
```

Arguments

`shizo`
query return

Value

dataframe of schizoscore

[Package *mentaldisorders* version 0.1.0 [Index](#)]

`schizoplot {mentaldisorders}`

`plot of results for shizophrenia`

Description

perform plot representation of results for schizophrenia

Usage

```
schizoplot(schizoscore)
```

Arguments

`schizoscore`
return

schizoquery (mentaldisorders)

Query Schizophrenia

Description

compute literature query for a gene list in the field of shizophrenia

Usage

```
schizo<-schizoquery(set$gene)
```

Arguments

set\$gene
list of genes

Value

dataframe of schizoquery